

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
22 April 2004 (22.04.2004)

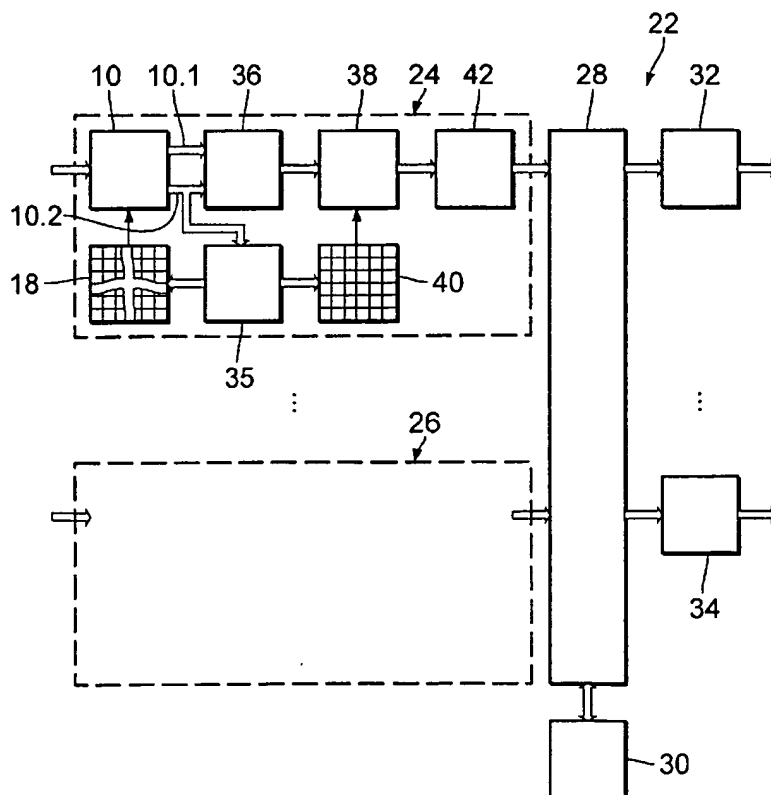
PCT

(10) International Publication Number
WO 2004/034651 A1

- (51) International Patent Classification⁷: **H04L 12/56** (74) Agent: **UNGERER, Olaf**; Eisenführ, Speiser & Partner, Arnulfstr. 25, 80335 Munich (DE).
- (21) International Application Number: **PCT/IB2002/004002** (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (22) International Filing Date: **30 September 2002 (30.09.2002)** (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- (25) Filing Language: **English**
- (26) Publication Language: **English**
- (71) Applicant (*for all designated States except US*): **NOKIA CORPORATION [FI/FI]**; Keilalahdentie 4, FIN-02150 Espoo (FI).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): **AALTO, Mika [FI/FI]**; Kiskottajankuja 3 F 48, FIN-02660 Espoo (FI). **RÄISÄNEN, Vilho [FI/FI]**; Gyldeintie 8 A 20, FIN-00200 Helsinki (FI).

[Continued on next page]

(54) Title: ROUTING DATA PACKETS IN A COMPRESSED-HEADER DOMAIN



(57) Abstract: The invention concerns routing of data packets in a header-compressed domain. According to the method described, routing a data packet with a compressed header section and an uncompressed payload section comprises steps of receiving the data packet at an ingress interface, routing the data packet to an egress interface, and forwarding the data packet to the egress interface. According to this method, the compressed header section remains unchanged between the ingress interface and the egress interface. Various implementations of this method are described, including the use of the header compression context identifier (HCCID) by for routing the packets to the correct egress interface. Accordingly, a decompressor and a router (22) are also disclosed.

WO 2004/034651 A1



Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.